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OM protein - protein search, using sw mode.

Run on: August 28, 2003, 18:21:02 ; Search time 40.1818 Seconds
(Without alignments) 51.353 Million cell updates/sec

Title: US-09-743-225-10

Scoring table: BLOSUM62
Gapext 0.5
Sequence: 1 CATLIRVYKGGGXA 13

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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RESULT 1
AAV69261 standard; peptide: 13 AA.
ID AAV69261
AC AAV69261;
XX DT 30-MAY-2000 (first entry)
XX DE Monopeptide which inhibits anti-beta-2-glycoprotein 1 antibodies.
XX KW Anti-beta-2-glycoprotein 1 antibody; anti-B2GPI antibody;
KW anti-phospholipid syndrome; anti-phospholipid antibody;
KW pregnancy complication; thrombosis; coagulation dysregulation.
XX OS Synthetic.
XX PN WO200001729-A2.
FH Key
FT Modified-site 12
/note- "FmocLys(Fmoc)-OH"

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	64	97.0	13	21 AAY69261	Monopeptide which
2	55	83.3	10	21 AAB17996	Membrane-transport
3	55	83.3	10	21 AAB5224	Peptide which Inhibits
4	55	83.3	10	23 ABB7367	Exemplary pharmaco
5	46	69.7	9	21 AAB17995	Membrane-transport
6	46	69.7	9	23 ABB7366	Exemplary pharmaco
7	38	57.6	112	22 AAU46530	Propionibacterium
8	38	57.6	266	21 AAG07912	Arabidopsis thaliana
9	38	57.6	266	21 AAG4155	Arabidopsis thaliana

DR WPI; 2000-182105/16.

XX Novel synthetic peptides that inhibit anti-beta-2-glycoprotein 1
 PT antibodies, useful for diagnosis and treatment of anti-phospholipid
 PT syndrome in humans.

XX Disclosure: Page 13; 58pp; English.

PS The present sequence represents a synthetic peptide which is capable
 CC of inhibiting the biological activity of anti-beta-2-glycoprotein 1
 CC (B2GPI) monoclonal antibodies in vitro and of inhibiting in vivo
 CC induction of experimental anti-phospholipid syndrome in mice by
 CC anti-B2GPI monoclonal antibodies. The peptides are used for diagnosis
 CC and treatment of anti-phospholipid syndrome. They may also be used
 CC for the diagnosis of anti-phospholipid antibodies with different
 CC pathogenic biofunctions which may correlate with either pregnancy
 CC complications, thrombosis or coagulation dysregulation.

XX Sequence 13 AA;

Query Match Score 97.0%; Score 64; DB 21; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.00019; Indels 0; Gaps 0;

QY 1 CATTLYVKGKXA 13

| | | | | | | | | | | | | | | |

1 CATTLYVKGKXA 13

RESULT 2

AAB17996 standard; Peptide; 10 AA.

ID AAB17996;

XX 31-OCT-2000 (first entry)

DE Membrane-transporting Peptide sequence SEQ ID NO:1108.

XX

DE Modified peptide; therapeutic agent; fusion; FC domain; cancer;

XX autoimmune disease; cytostatic; antiasthmatic; thrombolytic; VEGF;

KW immunosuppressive; EPO; TPO; CTLA4; mimetic; IL-1; TNF; antagonist;

KW MMP; inhibitor; erythropoietin; thrombopoietin; Interleukin 1;

KW cytotoxic T cell lymphocyte antigen 4; tumour necrosis factor;

KW vascular endothelial growth factor; matrix metalloproteinase;

KW asthma; thrombosis; pharmaceutical.

XX OS Synthetic.

XX PN WO2002024782-A2.

XX PD 04-MAY-2000.

XX PF 25-OCT-1999; 99WO-US2004.

XX PR 23-OCT-1998; 98US-0105371.

XX PR 22-OCT-1999; 99US-0428082.

XX PA (AMGEN INC.

XX Feige U, Liu C, Cheetham J, Boone TC;

XX DR WPI; 2000-350702/30.

XX Novel composition of matter comprising an FC domain and

PT pharmacologically active peptides, useful for treating cancer and

PT autoimmune diseases -

XX PS Claim 39; Page 601; 608pp; English.

XX The present invention describes composition of matter (I) comprising an

CC FC domain, pharmacologically active peptides and linkers, where (I) is:

CC (X1-a-F1-(X2)b), where: F1 = an FC domain; X1 and X2 = are each

XX

XX

XX

XX

XX

CC independently selected from -(L1)c-P1-(L2)d-P2,-(L1)c-P1-(L2)d-P2-(L3)e-P3,-(L4)f-P4-
 CC where P1, P2, P3, and P4 = are each independently sequences of
 CC pharmacologically active peptides; L1, L2, L3, and L4 = are each independently
 CC independent linkers; and a, b, c, d, e, and f = are each independently
 CC 0 or 1, provided that at least 1 of a and b is 1. The composition can
 CC have cytostatic, antiasthmatic, thrombolytic and immunosuppressive
 CC activities. DNAs, vectors and host cells from the present invention can
 CC be used for producing pharmaceutical compositions. The compositions are
 CC useful for treating cancer, asthma, thrombosis, or autoimmune diseases.
 CC The use of an FC domain (rather than a Fab domain) can provide a longer
 CC half-life or incorporate functions such as FC receptor binding, protein
 CC A binding, complement fixation, and possibly placental transfer. AAA69443
 CC to AAA69526 and AAB16935 to AAB18003 represent nucleotide and amino acid
 CC sequences used in the exemplification of the present invention.

XX Sequence 10 AA;

SQ

Query Match

Best Local Similarity

Matches

Score

55;

DB 21;

Length 10;

XX

XX

XX

XX Pred. No. 0.0052; Mismatches 0; Indels 0; Gaps 0;

QY 1 CATTLYVKGK 10

Db 1 CATTLYVKGK 10

XX

XX</div

CC A binding complement fixation, and possibly placental transfer. AAA69443
 CC to AA6956 and AAB1803 to AAB1695 to AAB1803 represent nucleotide and amino acid
 CC sequences used in the exemplification of the present invention.
 XX Sequence 9 AA;

Query Match 69.7%; Score 46; DB 21; Length 9;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 9; Conservative 0; Mismatches 0; Gaps 0;

Qy 2 ATLRVYKGG 10
 ||||| |||
 Db 1 ATLRVYKGG 9

RESULT 6
 ID ABB73366 standard; Peptide; 9 AA.
 XX AC ABB73366;
 XX DT 05-APR-2002 (first entry)
 XX DE Exemplary pharmacologically active peptide SEQ ID NO:1105.
 XX Modified peptide; mimetic; FC domain; fusion; immunoglobulin G; IgG;
 KW EPO; erythropoletin; rPO; tumour necrosis factor alpha inhibitor;
 KW TNF antagonist; interleukin 1 antagonist; IL-1 antagonist; TMP;
 KW TPO mimetic peptide; EPO mimetic peptide; rMP; VEGF antagonist;
 KW MMP inhibitor; antinflammatory; antitumour; immunosuppressive;
 KW cytotoxic; antiarthritic; antinflammatory; antitumour; immunological;
 KW antianæmic; anorectic; antirheumatic; antiarthritic; haemostatic; dermatological;
 KW neuroprotective; inflammatory disease; autoimmune disease; tumour growth;
 KW cancer; rheumatoid arthritis; diabetic retinopathy; anaemia;
 KW sleep disorder; neurological degenerative disease; anaemia;
 KW thrombocytopenia; metastatic tumour; systemic lupus erythematosus;
 KW Fanconi's syndrome.
 XX OS Synthetic.
 XX PN WO200183555-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US14310.
 XX PR 03-MAY-2000; 2000US-0563286.
 XX PA (AMGE-) AMGEN INC.
 XX PI Felge U, Liu C, Cheetham JC, Boone TC, Gudas JM;
 XX DR WPI; 2002-130313/17.
 XX PT Novel vehicle-peptide molecule or its multimers useful for treating
 PT inflammatory and autoimmune diseases, cancer, rheumatoid arthritis,
 PT diabetic retinopathy, obesity, sleep disorders and infertility -
 XX PS Claim 39; Page 62; 176pp; English.
 XX
 CC The present invention describes a vehicle-peptide molecule (I) or its
 CC multimers. (I) can have antiinflammatory, antitumour, immunosuppressive,
 CC cytostatic, antirheumatic, antiarthritic, antidiabetic, ophthalmological,
 CC antihaemostatic, anorectic, antinflammatory, haemostatic, dermatological and
 CC neuroprotective activities. (I) can be used as a therapeutic or
 CC prophylactic agent as well as for screening purposes. (I) is useful for
 CC diagnosing diseases characterised by dysfunction of their associated
 CC proteins of interest, for identifying normal or abnormal proteins of
 CC interest, as a part of diagnostic kit to detect the presence of their
 CC proteins of interest in a biological sample. Additionally, (I) is useful
 CC for treating inflammatory and autoimmune diseases, tumour growth, cancer,
 CC rheumatoid arthritis, diabetic retinopathy, obesity, sleep disorders,
 CC infertility, and neurological degenerative diseases. (I), comprising
 CC

CC EPO-mimetic compounds are useful for treating disorders characterised by
 CC low red blood cell levels such as anaemia. The TPO-mimetic comprising
 CC compounds are useful for treating conditions that involve an existing
 CC megakaryocyte/platelet deficiency or an expected megakaryocyte/platelet
 CC deficiency, such as thrombocytopenia, aplastic anaemia, metastatic
 CC tumour which result in thrombocytopenia, systemic lupus erythematosus,
 CC and Fanconi's syndrome. ABB73403 to ABB73426 and ABL35695 to ABL35777
 CC represent amino acid and nucleic acid sequences used in the
 CC exemplification of the present invention.

XX SQ Sequence 9 AA;
 XX Query Match 69.7%; Score 46; DB 23; Length 9;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 2 ATLRVYKGG 10
 ||||| |||
 Db 1 ATLRVYKGG 9

RESULT 7
 ID AAU46530 standard; Protein; 112 AA.
 XX AC AAU46530;
 XX DT 27-FEB-2002 (first entry)
 XX DE Propionibacterium acnes immunogenic protein #7426.
 XX KW SAPHO syndrome; synovitis; acne; pustulosis; hypertotis; osteomyelitis;
 KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
 KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
 KW dermatological; osteopatric; neuroprotectant.
 XX OS Propionibacterium acnes.
 XX PN WO200183581-A2.
 XX PD 01-NOV-2001.
 XX PR 20-APR-2001; 2001WO-US12865.
 XX PR 21-APR-2000; 2000US-199047P.
 XX PR 02-JUN-2000; 2000US-208841P.
 XX PR 07-JUL-2000; 2000US-216747P.
 XX PA (CORI-) CORIKA CORP.
 XX PI Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;
 XX L'maisonneuve J, Zhang Y, Jen S, Carter D;
 XX DR WPI; 2001-616747/1.
 XX DR N-PSDB; AAS59534.
 PT Propionibacterium acnes polypeptides and nucleic acids useful for
 PT vaccinating against and diagnosing infections, especially useful for
 PT treating acne vulgaris -
 XX PS Example 1; SEQ ID No 7725; 1069pp; English.
 XX Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 CC polypeptides. The proteins and their associated DNA sequences are used in
 CC the treatment, prevention and diagnosis of medical conditions caused by
 CC P. acnes. The disorders include SAPHO syndrome (synovitis, acne,
 CC pustulosis, hyperotis and osteomyelitis), uveitis and endophthalmitis.
 CC P. acnes is also involved in infections of bone, joints and the central
 CC nervous system, however it is particularly involved in the inflammatory
 CC lesions associated with acne vulgaris. A method for detecting the
 CC presence or absence of P. acnes in a patient comprises contacting a
 CC sample with a binding agent that binds to the proteins of the sample. The invention
 CC and determining the amount of bound protein in the sample.

polypeptides may be used as antigens in the production of antibodies specific for *P. acnes* proteins. These antibodies can be used to downregulate expression and activity of *P. acnes* polypeptides and therefore treat *P. acnes* infections. The antibodies may also be used as diagnostic agents for determining *P. acnes* presence, for example, by enzyme linked immunosorbent assay (ELISA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/patents-pct/sequences](http://wipo.int/patents-pct/sequences).

polypeptides may be used as antigens in the production of antibodies specific for <i>P. acnes</i> Proteins. These antibodies can be used to downregulate expression and activity of <i>P. acnes</i> polypeptides and therefore treat <i>P. acnes</i> infections. The antibodies may also be used as diagnostic agents for determining <i>P. acnes</i> presence, for example, by enzyme linked immunosorbent assay (ELISA).
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences .
Sequence 112 AA:
Query Match 57.6%; Score 38; DB 22; Length 112; Best Local Similarity 63.6%; Pred. No. 58; Matches 7; Conservative 2; N mismatches 2; Indels 0; Gaps 0;
Qy 1 CATTIVRYKGG 11 : : Db 37 CSTRIVYKPTG 47
RESULT 8 ID AAG07912 standard; Protein: 266 AA. XX AAG07912; XX DT 17-OCT-2000 (first entry)
DE Arabidopsis thaliana protein fragment SEQ ID NO: 5244. XX KW Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence. XX OS Arabidopsis thaliana. XX PN EP1033405-A2. XX PD 06-SEP-2000. XX PF 25-FEB-2000; 2000EP-0301439. XX PR 25-FEB-1999; 99US-0121825. PR 05-MAR-1999; 99US-0122180. PR 09-MAR-1999; 99US-012548. PR 23-MAR-1999; 99US-0125788. PR 25-MAR-1999; 99US-0126364. PR 29-MAR-1999; 99US-0126785. PR 01-APR-1999; 99US-0122462. PR 06-APR-1999; 99US-0128334. PR 08-APR-1999; 99US-0128714. PR 16-APR-1999; 99US-0129845. PR 19-APR-1999; 99US-0130077. PR 21-APR-1999; 99US-0130449. PR 23-APR-1999; 99US-0130510. PR 23-APR-1999; 99US-0130591. PR 28-APR-1999; 99US-0131449. PR 30-APR-1999; 99US-0132048. PR 30-APR-1999; 99US-0132447. PR 04-MAY-1999; 99US-0132484. PR 05-MAY-1999; 99US-0132485. PR 06-MAY-1999; 99US-0132486. PR 06-MAY-1999; 99US-0132487. PR 07-MAY-1999; 99US-0132863. PR 11-MAY-1999; 99US-0134556. PR 14-MAY-1999; 99US-0134218. PR 14-MAY-1999; 99US-0134219. PR 14-MAY-1999; 99US-0134221. PR 14-MAY-1999; 99US-0134310. PR 18-MAY-1999; 99US-013468. PR 19-MAY-1999; 99US-0134941. PR 20-MAY-1999; 99US-0135124. PR 20-MAY-1999; 99US-0135125. PR 21-MAY-1999; 99US-0135126. PR 24-MAY-1999; 99US-0136021. PR 27-MAY-1999; 99US-0136392. PR 28-MAY-1999; 99US-0136782. PR 01-JUN-1999; 99US-0137222. PR 03-JUN-1999; 99US-0137528. PR 04-JUN-1999; 99US-0137502. PR 07-JUN-1999; 99US-0137724. PR 08-JUN-1999; 99US-0138094. PR 10-JUN-1999; 99US-0138540. PR 10-JUN-1999; 99US-0138847. PR 14-JUN-1999; 99US-0139452. PR 16-JUN-1999; 99US-0139453. PR 17-JUN-1999; 99US-0139492. PR 18-JUN-1999; 99US-0139454. PR 18-JUN-1999; 99US-0139455. PR 18-JUN-1999; 99US-0139456. PR 18-JUN-1999; 99US-0139457. PR 18-JUN-1999; 99US-0139458. PR 18-JUN-1999; 99US-0139459. PR 18-JUN-1999; 99US-0139460. PR 18-JUN-1999; 99US-0139461. PR 18-JUN-1999; 99US-0139462. PR 18-JUN-1999; 99US-0139463. PR 18-JUN-1999; 99US-0139467. PR 18-JUN-1999; 99US-0139477. PR 18-JUN-1999; 99US-0139478. PR 18-JUN-1999; 99US-0139479. PR 18-JUN-1999; 99US-0139480. PR 18-JUN-1999; 99US-0139481. PR 18-JUN-1999; 99US-0139482. PR 18-JUN-1999; 99US-0139483. PR 18-JUN-1999; 99US-0139484. PR 18-JUN-1999; 99US-0139485. PR 18-JUN-1999; 99US-0139486. PR 18-JUN-1999; 99US-0139487. PR 18-JUN-1999; 99US-0139488. PR 18-JUN-1999; 99US-0139489. PR 18-JUN-1999; 99US-0139490. PR 18-JUN-1999; 99US-0139491. PR 22-JUN-1999; 99US-0139899. PR 23-JUN-1999; 99US-0140353. PR 24-JUN-1999; 99US-0140354. PR 24-JUN-1999; 99US-0140695. PR 28-JUN-1999; 99US-0140823. PR 29-JUN-1999; 99US-0140991. PR 30-JUN-1999; 99US-0141287. PR 01-JUL-1999; 99US-0141842. PR 01-JUL-1999; 99US-0142154. PR 02-JUL-1999; 99US-0142055. PR 06-JUL-1999; 99US-0142390. PR 08-JUL-1999; 99US-0142803. PR 09-JUL-1999; 99US-0142992. PR 12-JUL-1999; 99US-0142977. PR 13-JUL-1999; 99US-0143542. PR 14-JUL-1999; 99US-0143624. PR 15-JUL-1999; 99US-0144005. PR 16-JUL-1999; 99US-0144085. PR 16-JUL-1999; 99US-0144086. PR 17-JUL-1999; 99US-0144087. PR 19-JUL-1999; 99US-0144125. PR 19-JUL-1999; 99US-0144331. PR 19-JUL-1999; 99US-0144432. PR 19-JUL-1999; 99US-0144433. PR 19-JUL-1999; 99US-0144434. PR 19-JUL-1999; 99US-0144435. PR 20-JUL-1999; 99US-0144505. PR 20-JUL-1999; 99US-0144532. PR 21-JUL-1999; 99US-0144684. PR 21-JUL-1999; 99US-0145086. PR 21-JUL-1999; 99US-0145088. PR 22-JUL-1999; 99US-0145085. PR 22-JUL-1999; 99US-0145087. PR 22-JUL-1999; 99US-0145089. PR 22-JUL-1999; 99US-0145192. PR 23-JUL-1999; 99US-0145145. PR 23-JUL-1999; 99US-0145218. PR 23-JUL-1999; 99US-0145224. PR 26-JUL-1999; 99US-0145276. PR 27-JUL-1999; 99US-0145913. PR 27-JUL-1999; 99US-0145918. PR 27-JUL-1999; 99US-0145919. PR 28-JUL-1999; 99US-0146386. PR 02-AUG-1999; 99US-0146387.

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 PR 05-AUG-1999; 990US-0147196. Best Local Similarity 53.8%; Pred. No. 1.5e+02;
 PR 06-AUG-1999; 990US-0147303. Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 PR 06-AUG-1999; 990US-0147416. QY 1 CATTURVYKGGXA 13
 PR 09-AUG-1999; 990US-0147431. DB 114 CAFLISIYQVGAA 126
 PR 09-AUG-1999; 990US-0147935. RESULT 9
 PR 10-AUG-1999; 990US-0148171. ID AAG43155 standard; Protein: 266 AA.
 PR 11-AUG-1999; 990US-0148319. XX
 PR 12-AUG-1999; 990US-0148341. AC AAG43155;
 PR 13-AUG-1999; 990US-0148565. XX
 PR 13-AUG-1999; 990US-0148567. DT 18-OCT-2000 (first entry)
 PR 16-AUG-1999; 990US-0149368. DE Arabidopsis thaliana protein fragment SEQ ID NO: 53906.
 PR 17-AUG-1999; 990US-0149175. XX
 PR 18-AUG-1999; 990US-0149226. AC
 PR 20-AUG-1999; 990US-0149722. XX
 PR 20-AUG-1999; 990US-0149723. KW Protein identification; signal transduction pathway; metabolic pathway;
 PR 23-AUG-1999; 990US-0149902. KW hybridisation assay; genetic mapping; gene expression control; promoter;
 PR 23-AUG-1999; 990US-0149930. KW termination sequence.
 PR 25-AUG-1999; 990US-0150566. XX
 PR 26-AUG-1999; 990US-0150884. OS Arabidopsis thaliana.
 PR 27-AUG-1999; 990US-0151065. XX
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 PR 27-AUG-1999; 990US-0151080. XX
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